

IN THE CLAIMS

The following listing of claims will replace all prior versions, and listing of claims in the application:

1. (currently amended): A micro-filter for filtering blood cells, comprising:

a plurality of filtering channel structures, each having a first through hole and a first concave portion connected to each other, wherein the first concave portion defines two first channel portions opposite each other, wherein each first channel portion has a plurality of channels and first openings, wherein the first openings have a first width for filtering first blood cells; and

a plurality of through channel structures respectively connected to the filtering channel structures, wherein each through channel structure defines a second through hole connected to the first concave portion and a second channel portion connected to the second through hole, and the second channel portion includes a plurality of channels and second openings, wherein the second openings have a second width smaller than the first width for filtering second blood cells that are smaller than the first blood cells.

2-3. (canceled)

4. (original): The micro-filter as claimed in claim 1, wherein the filtering channel structures are respectively attached to the through channel structures by an anode joint.

5. (original): The micro-filter as claimed in claim 1, wherein the filtering channel structures and the through channel structures are made of a silicon wafer.

6. (original): The micro-filter as claimed in claim 1, wherein the filtering channel structures are respectively attached to the through channel structures in an array.

7. (currently amended): A micro-filter for filtering blood cells, comprising:

a plurality of filtering channel structures, each having a first through hole and a first concave portion connected to each other, wherein the first concave portion defines

two first channel portions opposite each other, and each first channel portion includes a plurality of channels and first openings, wherein the first opening has a first width for filtering first blood cells; and

a plurality of through channel structures respectively connecting to the filtering channel structures, wherein each defines a second through hole and a second concave portion connected to each other, the second through hole connects to the first concave portion, and the second concave portion defines two second channel portions opposite each other, each of the second channel portions having a plurality of channels and second openings, wherein the second openings have a second width smaller than the first width for filtering second blood cells that are smaller than the first blood cells; and

a base structure connected to a bottom of the through channel structures and having a plurality of through hole therein to strengthen the micro-filter.